

WHAT IS CLAIMED IS:

1. A conceptual article collector comprising:

a concept-character string look-up-table indexed by keywords for searching articles, each keyword corresponding to a plurality of character strings and their
5 respective searching conditions;

a character string-article look-up-table indexed by character strings contained in said concept-character string look-up-table, each character string corresponding to a quantity of articles being processed;

an article pre-search means to from time to time search in a quantity of articles
10 based on character strings in said concept-character string look-up-table and to store result of such search in said character string-article look-up-table;

an article search means to search in indexes in said concept-character string look-up-table according to keywords input by user to obtain corresponding character strings therein, to search corresponding articles of the searched character strings in
15 said character string-article look-up-table, to calculate the relative intensity values of each searched article and the concept represented by said input keyword and to output result of such calculation; and

an article database to store a quantity of articles to be searched.

2. The conceptual article collector according to claim 1 wherein said
20 concept-character string look-up-table comprises a plurality of keywords and their corresponding character strings and weights of respective character strings; wherein said weight of one character string represents influence in the calculation of the relation between an article containing said one character string and the keyword corresponding to said one character string and wherein a character string comprises a
25 collection of characters, symbols and/or numbers.

3. The conceptual article collector according to claim 2 wherein said character string comprises a word in the Chinese language system.

4. The conceptual article collector according to claim 1 wherein said article

database comprises a communication device connectable to a remote database.

5. The conceptual article collector according to claim 1 wherein said article pre-search means searches in said article database at predetermined intervals.

6. The conceptual article collector according to claim 1 wherein said article search means conducts whole text search in said article database if an input search keyword is not contained in the index of the concept-character string look-up-table.

7. The conceptual article collector according to claim 1 wherein said article search means calculates the relative intensity value R_n of an article (Document n) in relation to said concept represented by said input keyword according to the following formula:

$$10 \quad R_n = \sum S_i W_i$$

wherein R_n represents the relative intensity value of Document n in relation to the concept represented by the input search keyword, S_i represents number of location of existence or frequency of existence in Document n of Character String i , which is corresponding to the input search keyword in said concept-character string

15 look-up-table, W_i represents weight of Character String i defined in the concept-character string look-up-table, n, i are natural numbers, $|W_i| < 1$.

8. The conceptual article collector according to claim 1 wherein said article search means further compares the relative intensity value of a searched article with a threshold and labels articles with relative intensity value greater than said threshold.